

ABSTRACT

A water- and oil-repelling adsorbing film formed on a material having active hydrogen such as hydroxyl group, imino group and amino group at the surface. This film is a chemically adsorbed film having surface irregularities exceeding 10 nanometers. It is directly or indirectly covalently bonded to the material surface and includes a monomolecular film or a polymer film with the molecules thereof containing a fluorocarbon group and a -Si- bond. The surface irregularities which exceed the molecular level are at least either those formed on the material surface itself, those due to particles formed on the substrate surface or those due to particles present in the chemically adsorbed film.